

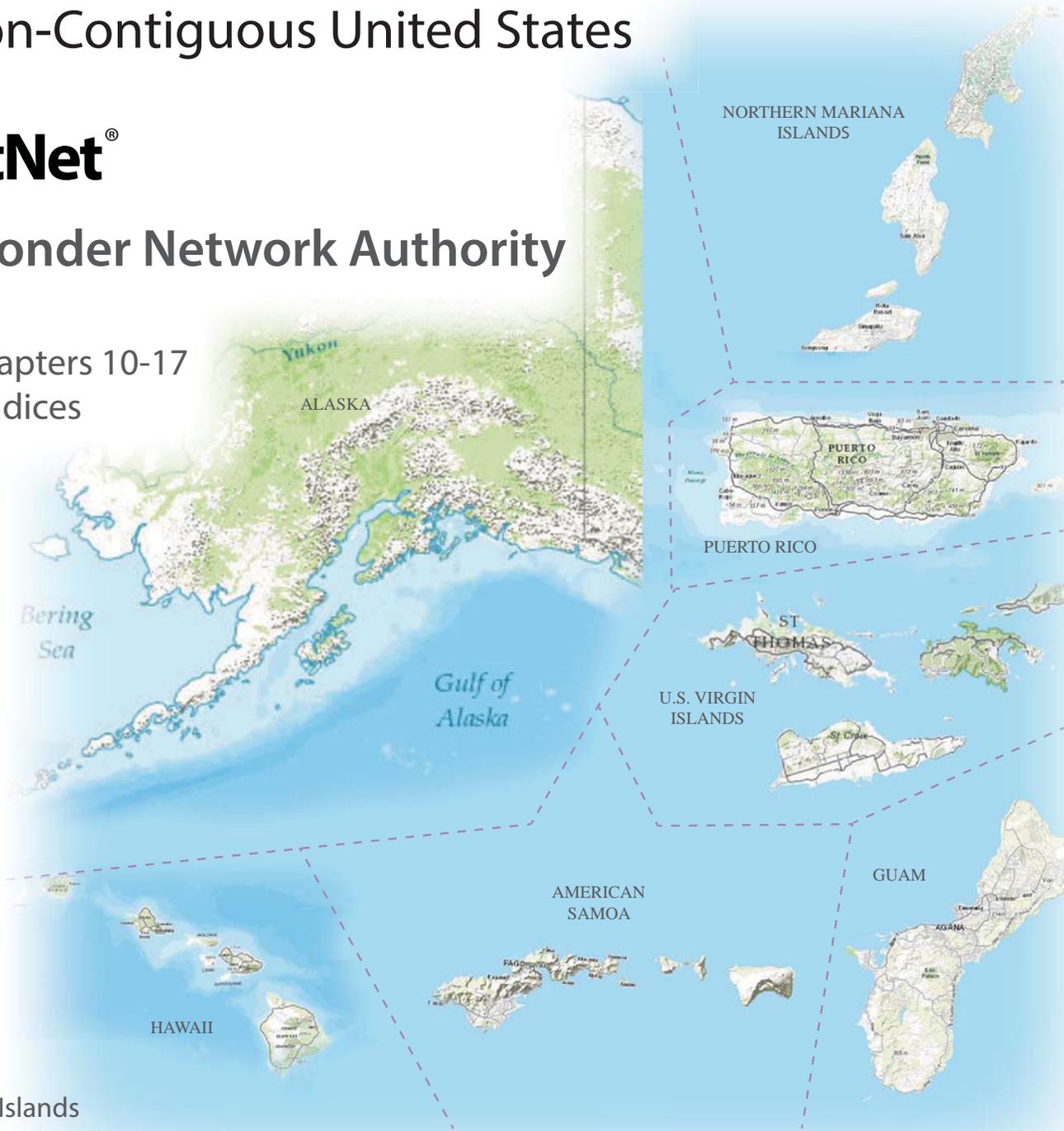
Nationwide Public Safety Broadband Network Draft Programmatic Environmental Impact Statement for the Non-Contiguous United States



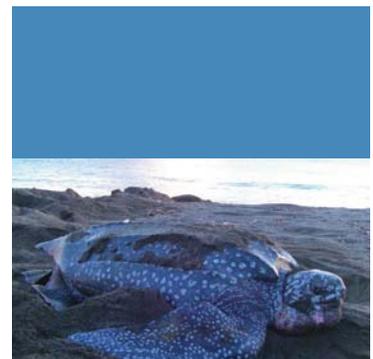
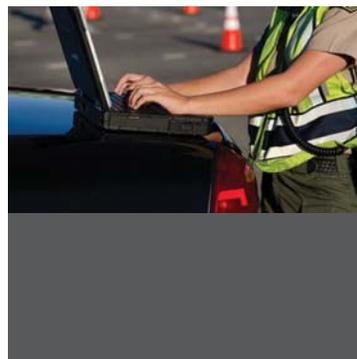
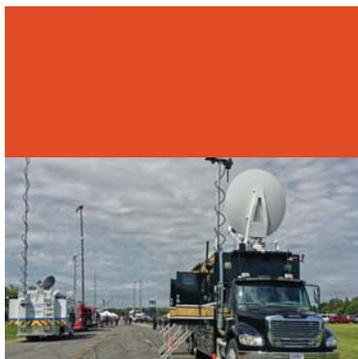
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First Responder Network Authority

Volume 8 - Chapters 10-17
& Appendices



Alaska
Hawaii
American Samoa
Guam
Northern Mariana Islands
Puerto Rico
U.S. Virgin Islands



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First Responder Network Authority



Nationwide Public Safety Broadband Network Draft Programmatic Environmental Impact Statement for the Non-Contiguous United States

Volume 8

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Cooperating Agencies

Federal Communications Commission
General Services Administration
U.S. Department of Agriculture—Rural Utilities Service
U.S. Department of Agriculture—U.S. Forest Service
U.S. Department of Agriculture—Natural Resource Conservation Service
U.S. Department of Defense—Department of the Air Force
U.S. Department of Energy
U.S. Department of Homeland Security

March 2016

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ACRONYMS AND ABBREVIATIONS

| | | | |
|-------------------|--|------------------|---|
| °F | degree Fahrenheit | ATWC | Alaska Tsunami Warning Center |
| °N | degrees north | AURORA | Alaska Uniform Response Online Reporting Access |
| µg/m ³ | microgram(s) per cubic meter | BACT | best available control technology |
| µPa | micro Pascal | BCE | before Common Era |
| % | percent | BCR | Bird Conservation Regions |
| A | attained | BGEPA | Bald and Golden Eagle Protection Act |
| AAC | Alaska Administrative Code | BLM | Bureau of Land Management |
| AAFIS | Alaska Public Safety Identification System | BLS | U.S. Bureau of Labor Statistics |
| AAQS | Ambient Air Quality Standards | BMP | best management practice |
| ACHP | Advisory Council on Historic Preservation | BRFSS | Behavioral Risk Factor Surveillance System |
| ACS | American Community Survey (U.S. Census Bureau) | BSAI | Bering Sea/Aleutian Island |
| ADEC | Alaska Department of Environmental Conservation | BWG | BioInitiative Working Group |
| ADFG | Alaska Department of Fish and Game | CAA | Clean Air Act |
| AGL | above ground level | CAB | Clean Air Branch |
| AIRFA | American Indian Religious Freedom Act | CARB | California Air Resources Board |
| AJRCCM | American Journal of Respiratory and Critical Care Medicine | CBIA | Coastal Barrier Improvement Act of 1990 |
| AKNHP | Alaska National Heritage Program | CBRA | Coastal Barrier Resources Act of 1982 |
| AKOSH | Alaska Occupational Safety and Health | CCP | Comprehensive Conservation Plan |
| AKWAS | Alaska Warning System | CDC | Center for Disease Control |
| ALMR | Alaska Land Mobile Radio | CDLNR | Commonwealth Department of Lands and Natural Resources |
| ANFIRS | Alaska Fire Incident Reporting System | CE | Common Era |
| ANSCA | Alaska Native Claims Settlement Act | CELCP | Coastal and Estuarine Land Conservation Program |
| ANSI | American National Standards Institute | CEPD | Caribbean Environmental Protection Division |
| APE | Area of Potential Effect | CEQ | Council on Environmental Quality |
| APLIC | Avian Power Line Interaction Committee | CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| APSIN | Alaska Public Safety Information Network | CFMC | Caribbean Fisheries Management Council |
| AQCR | air quality control region | CFR | Code of Federal Regulations |
| ARFF | Aircraft Rescue and Firefighting | cfs | cubic feet per second |
| ARMS | Alaska Records Management System | CH ₄ | methane |
| ARPA | Archaeological Resources Protection Act of 1979 | CHC | Commonwealth Health Center |
| AS | Alaska Statute | CIA | Central Intelligence Agency |
| A.S.A.C. | American Samoa Administrative Code | CMIP3 | Coupled Model Intercomparison Project phase 3 |
| ASCA | American Samoa Code Annotated | CNMI | Commonwealth of Northern Mariana Islands |
| ASCMP | American Samoa Coastal Management Program | CNMIAC | Commonwealth of Northern Mariana Islands Administrative Code |
| ASDMWR | American Samoa Department of Marine and Wildlife Resources | CO | carbon monoxide |
| ASEPA | American Samoa Environmental Protection Agency | CO ₂ | carbon dioxide |
| ASHPO | American Samoa Historic Preservation Office | CO _{2e} | carbon dioxide equivalents |
| ASPA | American Samoa Power Authority | COMAR | Committee on Man and Radiation |
| ATO | Air Traffic Organization | CPA | Commonwealth Ports Authority |

| | | | |
|----------|--|------------------|---|
| CRMP | Coastal Resources Management Program | FMP | Fishery Management Plan |
| CSP | Central South Pacific | FPPA | Farmland Protection Policy Act of 1981 |
| CUC | Commonwealth Utilities Corporation | FR | Federal Register |
| CWA | Clean Water Act | ft | feet |
| CZMA | Coastal Zone Management Act | g/hp-hr | grams per horsepower-hour |
| CZMP | Coastal Zone Management Program | g/mi | grams per mile |
| DACA | Deployable Airborne Communications Architecture | GAP | Gap Analysis Program |
| DAR | Division of Aquatic Resources (Hawaii) | GCA | Guam Code Annotated |
| DAWR | Division of Aquatic and Wildlife Resources (Guam) | GDA | Guam Department of Agriculture |
| dB | decibel(s) | GEPA | Guam Environmental Protection Agency |
| dba | A-weighted decibel(s) | GHG | greenhouse gas |
| DBCP | 1,2-dibromo-3-chloropropane | GIS | geographic information system |
| dBZ | Z-weighted decibel(s) | GMP | General Management Plan |
| DCP | 1,2-dichloropropane | GOA | Gulf of Alaska |
| DEC | Department of Environmental Conservation | GRHP | Guam Register of Historic Places |
| DHHL | Department of Hawaiian Homelands | GWP | global warming potential |
| DLNR | Department of Land and Natural Resources (Hawaii) | H ₂ S | hydrogen sulfide |
| DMA | Disaster Mitigation Act of 2000 | HDOH | Hawaii Department of Health |
| DNER | Department of Natural and Environmental Resources of Puerto Rico | HEI | Health Effects Institute |
| DOA | Department of Agriculture | HHCA | Hawaiian Homes Commission Act of 1920 |
| DOD | Department of Defense | HIANG | Hawaii Air National Guard |
| DOE | U.S. Department of Energy | HIARNG | Hawaii Army National Guard |
| DOH | Department of Health | HIHWNMS | Hawaiian Islands Humpback Whale National Marine Sanctuary |
| DOH-CAB | Hawaii Department of Health, Clean Air Branch | HIOSH | Hawaii Occupational Safety and Health Division |
| DOT | U.S. Department of Transportation | hp | horsepower |
| DPNR | Department of Planning and Natural Resources (U.S. Virgin Islands) | HRD | (Guam) Historic Resources Division |
| DPS | Department of Public Safety | HRHP | Hawaii Register of Historic Places |
| EA | Environmental Assessment | HRS | Hawaii Administrative Rules, Revised Statute |
| EAS | Emergency Alert System | HTA | Hawai'i Tourism Authority |
| EBS | Emergency Broadcast System | HUC | hydrologic unit code |
| EDB | ethylene dibromide | I/M | Inspection/Maintenance |
| EFH | essential fish habitat | IARC | International Agency for Research on Cancer |
| EMS | emergency medical services | IBA | Important Bird Area |
| ENSO | El Niño/Southern Oscillation | IEEE | Institute of Electrical and Electronics Engineers |
| EO | Executive Order | IFC | International Finance Corporation |
| EPCRA | Emergency Planning and Community Right-to-Know Act | in | inches |
| ERP | effective radiated power | IPCC | Intergovernmental Panel on Climate Change |
| ESA | Endangered Species Act | IR | ionizing radiation |
| ESI | Environmental Sensitivity Index | ITCZ | Intertropical Convergence Zone |
| FAA | Federal Aviation Administration | IUCN | International Union for Conservation of Nature |
| FAD | Fish Aggregating Device | kg/gal | kilograms per gallon |
| FCC | Federal Communications Commission | KIRC | Kaho'olawe Island Reserve Commission |
| FEMA | Federal Emergency Management Agency | LAER | lowest achievable emission rate |
| FirstNet | First Responder Network Authority | lb/day | pounds per day |
| | | lb/hp-hr | pounds per horsepower-hour |

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|--------------------|---|-------------------|---|
| LBJ | Lyndon B. Johnson | NP | National Park |
| Ldn | day-night average sound level | NPDES | National Pollutant Discharge Elimination System |
| Leq | equivalent noise levels | NPL | National Priorities List |
| LNG | liquefied natural gas | NPS | National Park Service |
| LTE | Long Term Evolution | NPSBN | nationwide public safety broadband network |
| µg/m ³ | microgram(s) per cubic meter | NRCS | Natural Resources Conservation Service |
| µPa | micro Pascal | NRHP | National Register of Historic Places |
| m/s | meter per second | NSPS | New Source Performance Standards |
| MBTA | Migratory Bird Treaty Act | NTIA | National Telecommunications and Information Administration |
| mg/m ³ | Milligram(s) per cubic meter | NVSR | National Vital Statistics Report |
| mgd | million gallons per day | NWI | National Wetland Inventory |
| MHz | megahertz | NWR | National Wildlife Refuge |
| MLRA | Major Land Resource Area | NWWS | National Weather Wire Satellite System |
| mm/s | millimeters per second | OHA | Office of History and Archaeology |
| MMPA | Marine Mammal Protection Act | OIA | Office of Insular Affairs (USDI) |
| MOA | Memorandum of Agreement | OSHA | Occupational Safety and Health Administration |
| MPA | Marine Protected Area | PA | Programmatic Agreement |
| mph | miles per hour | PAG | Port Authority of Guam |
| MSA | Magnuson-Stevens Fishery Conservation and Management Act | PAHO | Pan American Health Organization |
| MTR | Military Training Route | PCB | polychlorinated biphenyl |
| MUID | Map Unit Identification Data | PCP | pentachlorophenol |
| MW | megawatt | PDO | Pacific Decadal Oscillation |
| mW/cm ² | milliwatts per centimeter squared | PEIS | Programmatic Environmental Impact Statement |
| N | north; not attained | PL | Public Law |
| N ₂ O | nitrous oxide | PM | particulate matter |
| NA | not applicable; not assessed | PM ₁₀ | particulate matter up to 10 micrometers in diameter |
| NAAQS | National Ambient Air Quality Standards | PM _{2.5} | particulate matter up to 2.5 micrometers in diameter |
| NAGPRA | Native American Graves Protection and Repatriation Act | POPs | points of presence |
| NANSR | Nonattainment New Source Review | ppm | parts per million |
| NAWAS | National Warning System | PRDNER | Puerto Rico Department of Natural and Environmental Resources |
| NCA | National Climate Assessment | PREQB | Puerto Rico Environmental Quality Board |
| NCD | non-communicable disease | PR OSHA | The Puerto Rico Occupational Safety and Health Administration |
| NCDC | National Climatic Data Center | PRASA | Puerto Rico Aqueduct and Sewer Authority |
| NCN | no common name | PREPA | Puerto Rico Electric Power Authority |
| NCRP | National Council on Radiation Protection and Measurements | PRSHPO | Puerto Rico State Historic Preservation Office |
| ND | no data | PSD | Prevention of Significant Deterioration |
| NE | northeast | PUAG | Public Utility Agency of Guam |
| NEPA | National Environmental Policy Act | PV | photovoltaic |
| NESHAP | National Emission Standards for Hazardous Air Pollutants | RAN | radio access network |
| NFIP | National Flood Insurance Program | RCP | Representative Concentration Pathway |
| NFIRS | National Fire Incident Reporting System | RCRA | Resource Conservation and Recovery Act |
| NHPA | National Historic Preservation Act | | |
| NIR | non-ionizing radiation | | |
| NMFS | National Marine Fisheries Service | | |
| NMHC | non-methane hydrocarbon compounds | | |
| NMOG | non-methane organic compounds | | |
| NNE | north-northeast | | |
| NOAA | National Oceanic and Atmospheric Administration | | |
| NOx | nitrogen oxides | | |

| | | | |
|-----------------|--|------------------|---|
| RF | radio frequency | vog | volcanic smog |
| RIN | Regulation Identification Number | VRM | Visual Resource Management |
| rms | root mean square | W | watt(s) |
| ROW | right-of-way | W/m ² | watts per meters squared |
| SAAQS | State Air Quality Standards | WAPA | Water and Power Authority |
| SAFETEA-LU | Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users | WHO | World Health Organization |
| SARA | Superfund Amendments and Reauthorization Act of 1986 | WIMARCS | West Indies Marine Animal Research and Conservation Science |
| SCD | State Civil Defense | WNP | Western North Pacific |
| SE | Standard of Error | WNW | west-northwest |
| SHPO | State Historic Preservation Office | WPC | watts per channel |
| SIP | State Implementation Plan | WPRFMC | Western Pacific Regional Fishery Management Council |
| SLR | sea level rise | | |
| SMA | Special Management Area | | |
| SMS | Scenery Management System | | |
| SO ₂ | sulfur dioxide | | |
| SO _x | sulfur oxides | | |
| SPCZ | South Pacific Convergence Zone | | |
| SPOC | Single Point of Contact | | |
| SRES | Special Report on Emission Scenarios | | |
| SSA | sole source aquifer | | |
| STATSGO2 | State Soil Geographic [Database] | | |
| SW | southwest | | |
| TAAQS | Territory Ambient Air Quality Standards | | |
| TCP | traditional cultural property | | |
| TEMCO | Territorial Emergency Management Coordinating Office | | |
| TMDL | Total Maximum Daily Load | | |
| TOC | total organic compound | | |
| tpy | tons per year | | |
| TRI | Toxic Release Inventory | | |
| TSCA | Toxic Substances Control Act | | |
| U.S. | United States | | |
| UAMES | University of Alaska Museum Earth Sciences | | |
| USACE | U.S. Army Corps of Engineers | | |
| USC | United States Code | | |
| USDA | U.S. Department of Agriculture | | |
| USDI | U.S. Department of the Interior | | |
| USEPA | U.S. Environmental Protection Agency | | |
| USFWS | U.S. Fish and Wildlife Service | | |
| USGCRP | U.S. Global Climate Change Research Program | | |
| USGS | U.S. Geological Survey | | |
| USVIDOH | U.S. Virgin Islands Department of Health | | |
| USVIPD | U.S. Virgin Islands Police Department | | |
| UVA | University of Virginia | | |
| VIC | Virgin Islands Code | | |
| VIPA | Virgin Islands Port Authority | | |
| VISHPO | Virgin Islands State Historic Preservation Office | | |
| VOC | volatile organic compound | | |

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